

## SCHEDULE OF SPECIAL INSPECTIONS

MATERIAL/ACTIVITY	TYPE OF INSPECTION	APPLICABLE TO THIS PROJECT			
		Y/N	EXTENT/REFERENCE	AGENT	COMPLETED
GENERAL					
Pre-construction conference	Meeting with parties listed in Section 6 of HRRSIGP to discuss Special Inspection procedures		Scheduled by SI with the Contractor prior to commencement of work		
EARTHWORK					
Site preparation (building)	Field testing and inspection		Field Review, IBC 1704.7.1		
Fill placement (building)	Review submittals, field testing and inspection		Field Review, IBC 1704.7.2		
Fill compaction (building)	In-place density tests		Field Review, IBC 1704.7.3		
Foundation sub-grade	Field inspection of foundation subgrade prior to placement of concrete		Field Review		
PILE FOUNDATIONS					
Test piles	Monitor driving of test piles		IBC 1704.8		
Pile installation	Monitor driving of piles, including cut off and tip elevation		IBC 1704.8		
Pile load test	Monitor pile load test		IBC 1704.8		
Pile survey	Review as-driven survey		IBC 1704.8		
CONCRETE					
Materials	Review product supplied versus certificates of compliance and mix design		Submittal & Field Review, IBC 1704.4.1, ACI 318: Ch. 4 and 5, IBC 1904, 1905.2-1905.4, 1914.2, 1914.3		
Reinforcing steel	Field inspection of placement		Field Review, ACI 318:3.5, and Chapter 7, IBC 1704.4, 1903.5, 1907, 1914.4		
Formwork installation	Field inspection		Field Review, IBC 1906, ACI 318:6.1, 6.2		
Concreting operations and placement	Field inspection of placement		Field Review, ACI 318:5.9-10, IBC 1704.4, 1905.9, 1905.10, 1914.6, 1914.7, 1914.8		
Concrete curing	Field inspection of curing process		Field Review, ACI 318:5.11-13, IBC 1704.4, 1905.11, 1905.13, 1914.9		
Concrete strength	Evaluation of concrete strength		Laboratory Testing, ACI 318:5.6, IBC 1704.4, 1906.2, 1914.10		

## Hampton Roads Regional Special Inspection Guidelines and Procedures

<b>PRECAST CONCRETE</b>					
Quality Control	In-plant review **		IBC 1704.2		
Erection and installation	Field inspection of in-place precast		ACI 318: Ch. 16		
<b>MASONRY</b>					
Materials	Review of products supplied versus certificate of compliance and material submitted		Submittal & Field Review, ACI 530.1; Part 2, IBC 1704.5		
Strength	Testing/review of strength		Submittal & Field Review, ACI 530.1; 1.4, IBC 1704.5		
Mortar and Grout	Inspection of proportioning and mixing		Field Review, IBC 1704.5, ACI 530.1;2.6		
Reinforcement	Inspect condition, size, location, and spacing		Field Review, IBC 1704.5, ACI 530.1;3.4		
Protection	Inspect procedures for protection during cold and hot weather		Field Review; IBC 1704.5, ACI 530.1;1.8		
Anchorage	Inspection of anchorages		Field Review, ACI 530; 2. 1. 4, 4.9, 5.8, ACI 530.1;2.4, IBC 1704.5		
Masonry operations and installation	Inspection of application and installation		Field Review, ACI 530.1; Part 3, IBC 1704.5		
<b>STRUCTURAL STEEL</b>					
Quality Control	In-plant inspection of quality control procedures**		IBC 1704.2		
Bolts, nuts, and washers – materials	Material identification markings Review of certificate of compliance		Submittal & Field Review, AISC 335, Section A3.4; LRFD, Section A3.3		
Bolts, nuts, washers – installation	Inspection of in-place high-strength bolts, bearing type, and slip critical connections		Submittal & Field Review, IBC 1704.3.3, AISC LRFD Section M2.5		
Structural steel – materials	Material identification markings and Review of Certificate of Compliance		Submittal & Field Review, IBC 1704.3, ASTM A6, A568		
Structural steel – installation	Inspection of member locations, structural details for bracing, connections, stiffening		Submittal & Field Review, IBC 1704.3, ASTM A6, A568		
Weld filler materials and welder certification	Review of identification markings, certificate of compliance, and welder certifications		Submittal & Field Review, AISC ASD A3.6, LRFD A3.5		
Welds	Inspection and testing of welds		Field Review, IBC 1704.3.1, AWS, D1.1, D1.3		
Structural details	Inspection of Structural details		Field Review, IBC 1704.3.2		
<b>WOOD</b>					
Verify fabrication/quality control procedures	Review submittal and installation		IBC 1704.6		
High-Load Diaphragms- Installation	Inspection of sheathing, framing size, nail and staple diameter and length, number of fastener lines, and fastener spacing.		IBC 1704.6.1		

**Hampton Roads Regional Special Inspection Guidelines and Procedures**

<b>SPRAYED CEMENTITIOUS AND MINERAL FIBER FIRE RESISTIVE MATERIALS</b>					
Structural member surface conditions	Field Review of surface conditions prior to application		IBC 1704.11.1		
Application	Field review of application operations		IBC 1704.11.2		
Thickness	Field review of applied thickness		IBC 1704.11.3		
<b>EXTERIOR INSULATION AND FINISH SYSTEMS</b>					
Application	Field Review of application/installation		IBC 1704.12		
<b>SPECIAL CASES</b>					
Alternative Materials and Systems	As requested by Building Official, review system and installation.		IBC 1704.13		
<b>WIND AND SEISMIC QUALITY ASSURANCE PLANS</b>					
Wind and/or Seismic Requirements	Review of the quality assurance plan and performance of the Special Inspections required.		IBC 1705, 1706, 1707, 1708		
<b>SMOKE CONTROL</b>					
Special Inspection of smoke control systems	Leakage testing and recording of device location. Pressure difference testing, detection, and control verification		IBC 1704.14		

INSPECTION AGENTS	FIRM	ADDRESS	TELEPHONE
1. Special Inspector Agent 1			
2. Special Inspector			
3. Special Inspector			
4. Special Inspector			
5. Testing Laboratory			
6. Testing Laboratory			

Note: \* The qualifications of the Special Inspector and Testing Laboratories are subject to the approval of the Building Official.

\*\* Inspection of quality control procedures required only if fabricator is not regularly inspected by an independent inspection agency.

## FINAL REPORT OF SPECIAL INSPECTIONS

**PROJECT**

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**PERMIT APPLICANT**

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**PRIMARY RDP OF RECORD**

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**STRUCTURAL ENGINEER OF RECORD**

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To the best of my information, knowledge, and belief, the special inspections required for this project, and itemized in the statement of special inspections submitted for permit, have been completed.

The following discrepancies that were outstanding since the last interim report dated \_\_\_\_\_, have been corrected:

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Interim reports submitted prior to this final report, and numbered \_\_\_\_\_ to \_\_\_\_\_, form a basis for, and are to be considered an integral part of this final report.

Respectfully submitted,

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Type or Print Name (**Agent 1**)

Seal of SI

**Upon completion of all special inspections and testing, the SI shall submit a Final Report of Special Inspections to Building Official for review and approval. The Building Official review and approval is required prior to final building inspection approval or issuance of a Certificate of Occupancy.**

## Appendix B

### A/E SEAL ON DRAWINGS

The purpose of these charts and notes is for quick reference to determine in accordance with § 54.1 - 402 of the Code of Virginia if an architect's or engineer's (A/E) seal is required on documents for proposed construction.

#### CHART A - GENERAL DESIGN

A proposed structure which is classified within any of the categories marked "Yes" requires an A/E seal on the documents. Separate requirements apply as to when the electrical, plumbing or mechanical systems in such structures require an A/E seal (see Charts B and C).

GROUP	BRIEF DESCRIPTION	AREA (SQ. FT.)			HEIGHT (STORIES)	
		5,000 OR LESS	5,001 TO 15,000	OVER 15,000	3 OR LESS	OVER 3
A <sup>1</sup>	ASSEMBLY	YES	YES	YES	YES	YES
B	BUSINESS	-	YES	YES	-	YES
E	SCHOOLS & DAY CARE CENTERS	YES	YES	YES	YES	YES
F	FACTORY & INDUSTRIAL	-	-	YES	-	YES
H	HIGH HAZARD	YES	YES	YES	YES	YES
I	INSTITUTIONAL	YES	YES	YES	YES	YES
M	MERCANTILE	-	YES	YES	-	YES
R-1	HOTEL, MOTEL & DORMITORY	YES	YES	YES	YES	YES
R-2 <sup>7</sup>	MULTI-FAMILY RESIDENTIAL	-	-	YES	-	YES
R-3	2 FAMILY ATTACHED	-	-	YES	-	YES
R-4	RESIDENTIAL ASSISTED LIVING	-	-	YES	-	YES
R-5	1 AND 2 FAMILY DWELLINGS	-	-	YES	-	YES
S	STORAGE (NON_FARM)	-	-	YES	-	YES
U	UTILITY & MISCELLANEOUS	-	-	YES	-	YES
ALL	INTERIOR DESIGN	SEE	NOTE	#4		

- Churches are exempt if building does not exceed 5,000 square feet or three stories, and the occupant load does not exceed 100.
- A local building code official may require an A/E seal even if not required to do so by this chart.
- The law requires that, where an A/E seal is not present, the plans must have the name of the individual (not company) responsible for the design, including the individual's occupation and address.
- Additions, remodeling or interior design defined under § 54.1-400 of the Code of Virginia might not require an A/E seal. For construction, additions or remodeling resulting in a change in occupancy, occupancy load, modification to the structural system, change in access or egress or an increase in the fire hazard an A/E seal is required in accordance with § 54.1-400, although notes 1 and 2 still apply.
- Any unique design of structural elements for floors, walls, roofs or foundations requires an A/E seal, regardless of whether or not the remainder of the plans require such certification.
- Buildings, structures, or electrical and mechanical installations which are not otherwise exempted but which are of standard design, provided they bear the certification of a professional engineer or architect registered or licensed in another state, and provided that the design is adapted for the specific location and conformity with local codes, ordinances and regulations, and is so certified by a professional engineer or architect licensed in Virginia may not require an A/E seal.
- One exit and three stories or less Group R-2 buildings would normally be exempted from an A/E seal except where required by Note 2. Most all other three stories or less Group R-2 multi-family buildings are required by the building officials to have A/E seals for the construction documents.